

SOCIETY FOR THE STUDY OF AMPHIBIANS AND REPTILES



An Invitation to Membership

THE SOCIETY FOR THE STUDY OF AMPHIBIANS AND REPTILES—an association of biologists from more than 60 countries—invites you to enroll as a member. By joining, you will participate in the expansion of an already extensive program of publications and activities for herpetologists.

SSAR, the largest international herpetological society, is a not-for-profit organization established to advance research, conservation, and education concerning amphibians and reptiles. Founded in 1958, SSAR is widely recognized today as having the most diverse society-sponsored program of services and publications for herpetologists. Membership is open to all persons with an interest in herpetology—professionals and serious amateurs alike—who wish to join with us to advance the goals of the Society.

HENRY R. MUSHINSKY
President

PROGRAMS

PUBLICATIONS: SSAR NOW PUBLISHES SEVEN DIFFERENT series. Two of them, *Journal of Herpetology* and *Herpetological Review* (described on the next page), are sent to all members. Four of the other serials—*Facsimile Reprints*, *Herpetological Circulars*, *Contributions to Herpetology*, and *Catalogue of American Amphibians and Reptiles*—can be purchased separately, but SSAR members are offered substantial discounts on all publications, except for the *Catalogue*, which is offered by subscription. A seventh series, *Herpetological Conservation*, has just been initiated by the Society. A pricelist of all SSAR publications can be obtained from the Publications Secretary (address at bottom of next column).

ACTIVITIES: An annual meeting is held each summer on a university campus in North America. Contributed papers, symposia, poster sessions, workshops, field trips, and many academic and commercial exhibits make this week-long event the major professional herpetological meeting each year. In 1997, SSAR will meet at the University of Washington, in Seattle, and in 1998 at the University of Guelph, just west of Toronto, Canada.

Many Society activities are coordinated by committees that often have international membership. Each year the Grants-in-Herpetology Committee awards modest grants to individuals and organizations throughout the world in support of herpetological research, conservation, and education.

In its role as a society of biologists, and in keeping with the purpose of the SSAR as established in its constitution, the Society has supported other activities, such as financial aid to *Zoological Record*; arranging for sponsors for overseas members; contributions toward the legal defense of laws protecting the teaching of evolution; aid in setting up new herpetological

societies; and donations for the purchase of tracts of land in the Monteverde Cloud Forest in Costa Rica. The Society made a substantial grant in 1997 to support student travel to the Third World Congress of Herpetology in Prague, Czech Republic.

MEMBERSHIP

ALL MEMBERS OF THE SSAR ARE ENTITLED TO VOTE BY MAIL ballot for Society officers, which allows overseas members to participate in determining the Society's activities; also, many international members attend the annual meetings and serve on editorial boards and committees. All members receive the Society's primary technical publication, the *Journal of Herpetology*, and its news-journal, *Herpetological Review*; both are published four times per year. Members also receive pre-publication discounts on other Society publications, which are advertised in *Herpetological Review*.

By joining as a member, you contribute significantly to SSAR's program and help the Society to expand its wide range of activities for the herpetological community.

ANNUAL DUES AND SUBSCRIPTIONS: Fees are as follows:

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To join the SSAR or to subscribe to the *Catalogue*, please indicate type of membership or subscription (mark desired option) and send this form or a copy of it, with payment, to:

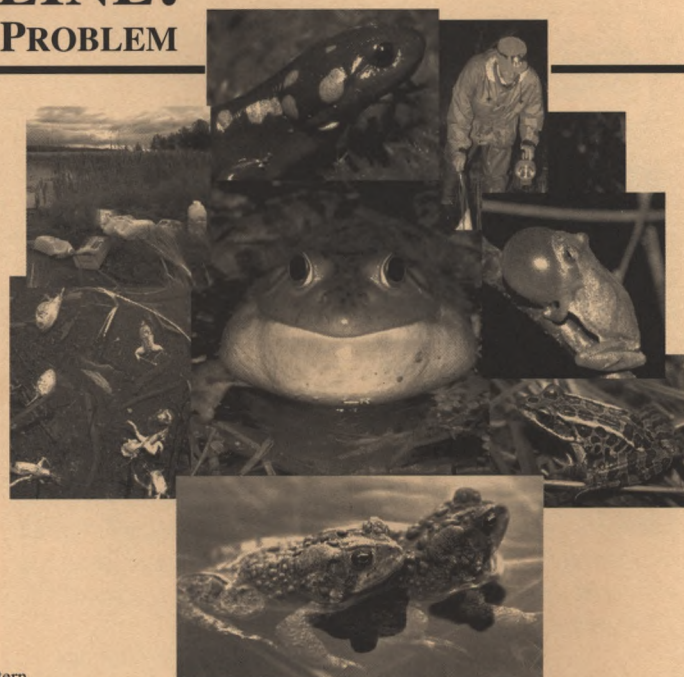
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Fax: area code 314, 977-3658.
E-mail: ssar@slu.edu

AMPHIBIANS IN DECLINE:

CANADIAN STUDIES OF A GLOBAL PROBLEM

THIS VOLUME, WRITTEN BY MORE THAN 50 OF CANADA'S leading herpetologists and conservationists (representing DAPCAN, the Canadian Working Group of the IUCN Declining Amphibian Populations Task Force), includes topics of broad worldwide interest and application. These include dispersal, fluctuations, genetic diversity, monitoring of natural populations, as well as effects of temperature, acidity, pesticides, UV, forestry practices, and disease.

PUBLISHED BY SOCIETY FOR THE STUDY OF AMPHIBIANS AND REPTILES and the CANADIAN ASSOCIATION OF HERPETOLOGISTS



Edited by David M. Green
McGill University,
Montreal

Herpetological Conservation,
Volume 1

52 Contributors, 29 Chapters,
Approximately 350 pages
ISBN 0-916984-40-0

Published in cooperation with the
Working Group on Amphibian and
Reptile Conservation in Canada

Price (USA): \$39 + \$3 S&H*

Price (Canada): \$55 + \$3 S&H

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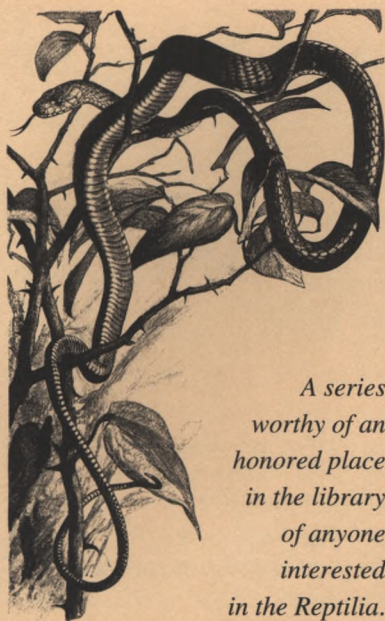
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Appendix II: Co-ordinators of DAPCAN, Present and Past



*A series
worthy of an
honored place
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in the Reptilia.*

—Alfred Sherwood Romer
(*American Scientist*)

*A broad, unified treatment of every-
thing concerning the structure and
the life of living reptiles.*

—Benedetto Lanza (*Scientia*)

*There has been no work comparable
to this in any language.*

—Garth Underwood
(*British Journal of Herpetology*)

BIOLOGY OF THE REPTILIA

THIS CELEBRATED SERIES, NOW EXTENDING TO 18 VOLUMES, HAS BEEN WIDELY acclaimed as the definitive resource on reptilian biology. From the first volume in 1969, the distinguished contributors to this series have included an international group of more than 100 experts in their respective fields. Each volume consists of five to 15 chapters summarizing the state of our knowledge, laying groundwork for future research, and providing an in-depth guide to the relevant literature. All volumes are fully illustrated with photographs, graphs, and extensive tables of information. Several additional volumes are planned. Each volume has both topical and taxonomic indices, and a comprehensive index to the entire series, to be published as the final volume, is in preparation. SSAR is proud to assume responsibility for this classic series and to offer clothbound volumes at affordable prices.

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Edited by
Carl Gans

Volume 18, Physiology E
**Hormones, Brain, and
Behavior**

Coeditor for this volume
David Crews

The University of Chicago Press
Chicago and London

VOLUME 19: TO BE PUBLISHED FALL 1997

Morphology, Volume G: The Visceral Organs. Edited by Carl Gans and Abbot S. Gaunt.

Topics and authors:

The Pulmonary System: General Overview, by Steven F. Perry; *Lungs of Snakes*, by Van Wallach; *Pulmonary Function*, by Warren Burggren, Allan Smits, and Tobias Wang.

The Cardiovascular System: The Heart, by Anthony Farrell, A. K. Gamperl, and the late E. T. B. Francis; *Cardiac Shunting*, by James Hicks.

The Hepatic System: The Liver, by Fenton Schaffner. *The Spleen*: by Yasukazu Tanaka.

This volume summarizes the major organs situated in the coelomic space, organs that function in metabolism or are involved with endocrine and reproductive activities. As such, it will be of interest to zoologists and herpetologists but also to veterinarians and herpetoculturists. Each chapter includes descriptive morphology combined with discussions of function and of ecological and evolutionary relationships.

Specifications: About 425 pages, 125 figures, indices, clothbound with dustjacket. ISBN 0-916984-42-7. To be published fall 1997.

Prices per copy:

SSAR members before publication US\$42
Institutions and Non-members US\$58

Shipping cost per copy:

In USA add US\$3
Non-USA add US\$6

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CATALOGUE OF AMERICAN AMPHIBIANS AND REPTILES

THE CATALOGUE OF AMERICAN AMPHIBIANS AND REPTILES (CAAR) represents one of the most important long-term cooperative activities undertaken by the American herpetological community. The *Catalogue* is issued as loose-leaf accounts of taxa (each 1–17 letter-size pages in length). Each account, authored by a leading herpetologist, serves as a complete and current summary of the knowledge of each taxon. Further, the CAAR is not restricted to those taxa occurring within the United States, but covers the entire Western Hemisphere (North, Central, and South America, as well as the Caribbean Basin). The *Catalogue of American Amphibians and Reptiles* sets the standard for archival taxonomic publications and has been emulated by biological societies worldwide.

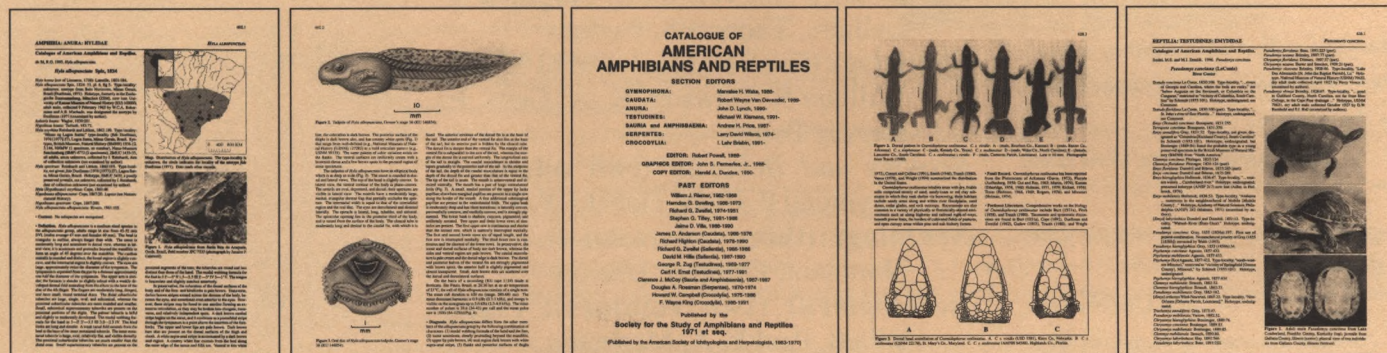
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- Etymology

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Excerpts from some recent accounts.

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Kraig Adler, Ronald Altig, Walter Auffenberg, Aaron Bauer, Edmund D. Brodie Jr., R. Bruce Bury, Janalee P. Caldwell, Jonathan A. Campbell, Charles J. Cole, Joseph T. Collins, James R. Dixon, C. Kenneth Dodd, William E. Duellman, Harold A. Dundee, Carl H. Ernst, Henry S. Fitch, Oscar Flores-Villela, Carl Gans, J. Whitfield Gibbons, L. Lee Grismer, Laurence M. Hardy, Robert W. Henderson, Richard Highton, John B. Iverson, Mark R. Jennings, Julian C. Lee, Ernest A. Liner, Jeffrey E. Lovich, John D. Lynch, William E. Magnusson, Bernard S. Martof, Clarence J. McCoy, James R. McCranie, Roy W. McDiarmid, William S. Parker, Clifford H. Pope, F. Harvey Pough, Robert Powell, Peter C.H. Pritchard, Douglas A. Rossman, Albert Schwartz, Wilmer W. Tanner, Jaime D. Villa, David B. Wake, Larry David Wilson, George R. Zug, Richard G. Zweifel

HERPETOLOGY

*Contemporary Research on the
Biology of Amphibians and Reptiles*



*Proceedings of the First
World Congress of Herpetology.
Foreword by H.R.H. Prince Philip.*

THIS VOLUME, CONTAINING THE REVISED AND UPDATED PLENARY lectures from the congress, demonstrates the breadth of modern herpetology and its continuing vitality as a discipline. The authors are among the world's leaders in their respective fields.

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- CARL GANS (USA): The Status of Herpetology
ILYA S. DAREVSKY (Russia): Evolution and Ecology of
Parthenogenesis in Reptiles
LINDA MAXSON (USA): Tempo and Pattern in
Anuran Speciation and Phylogeny
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DONALD BRADSHAW (Australia): Ecophysiology of Desert Reptiles
ERIC R. PIANKA (USA): Community Ecology
DAVID B. WAKE (USA): Evolutionary Studies of Salamanders

SUMMARY OF THE FIRST WORLD CONGRESS OF HERPETOLOGY
LIST OF CONGRESS DELEGATES WITH CURRENT ADDRESSES

Published 1992. 258 pages, 28 photographs, clothbound.

CAPTIVE MANAGEMENT AND CONSERVATION OF AMPHIBIANS AND REPTILES

Edited by James B. Murphy, Kraig Adler, & Joseph T. Collins • Foreword by Gerald Durrell



THIS BOOK (WITH CHAPTERS BY 70 LEADING AUTHORITIES FROM throughout the world and representing universities, museums, conservation organizations, zoos, aquariums, and the private sector) is a current review of techniques for managing and breeding animals in captivity for purposes of conservation. The emphasis is on endangered species, special and new techniques, and on diagnosing problems, yet the coverage is comprehensive and includes a broad array of issues.

Authors include: Roger A. Avery, Charles C. Carpenter, David Chiszar, Charles J. Cole, David Crews, Charles H. Daugherty, Carl Gans, J. Whitfield Gibbons, Elliott R. Jacobson, Howard E. Lawler, Russell A. Mittermeier, Gary C. Packard, Warren P. Porter, Barry Sinervo, Hobart M. Smith, Ian R. Swingland, Marvalee H. Wake, Paul J. Weldon, and Elke Zimmermann.

"An immense amount of practically useful information is contained in this book."
— Leigh Gillett in *Herpetological Journal*

"Destined to become a collector's item."
— Nicholas Gould in *International Zoo News*

"This well-edited, well-produced and stimulating book is yet another example of the publication excellence that characterizes all SSAR productions."
— W. R. Branch in *African Herp News*

Published 1994. 408 pages, 35 photographs, clothbound.

CHINA, WITH 661 SPECIES of amphibians and reptiles, possesses 7% of the world's herpetofauna. This book has 371 color photographs of animals (covering all 164 genera and half of the country's species) and their habitats. The geographic scope includes all of mainland China, plus Macao, Hong Kong, Hainan, and Taiwan. There are keys, an annotated bibliography, a gazetteer, and two indices.

Published 1993. 522 pages, 48 color plates, 84 photographs, clothbound.

"This is a remarkable book . . . The only comprehensive review of all the herpetological taxa of China."

— Robert F. Inger in *Herpetological Review*

"A great achievement . . . This book makes it possible to study the Chinese herpetofauna."

— David B. Wake in *Copeia*

"A magnificent, long-standing 'labor of love' of two internationally recognized zoologists from different continents is a monumental contribution to world herpetological science."

— Ilya S. Darevsky in *Russian Journal of Herpetology*

HERPETOLOGY OF CHINA

BY ER-MI ZHAO AND KRAIG ADLER

中国两栖爬行动物学

赵尔宓 鹰岩 合著



蛇蛙研究会与中国蛇蛙研究会出版·一九九三年
Published in 1993 by Society for the Study of Amphibians and Reptiles
in cooperation with Chinese Society for the Study of Amphibians and Reptiles

CONTRIBUTIONS BY SOME 60 authors from the United States, Europe, and the West Indies) provide an introduction to Antillean herpetology, including a history of West Indian herpetology, an updated checklist of the herpetofauna (including full literature citations for the original descriptions of all 622 species), and 70 color photographs illustrating representatives of all genera of native West Indian amphibians and reptiles. Also included are papers providing a broad view of current herpetological research in the West Indies (with a strong emphasis on field-oriented projects). All research chapters are abstracted in English, Spanish, and French.

Authors include: Karen A. Bjorndal, Ellen J. Censky, C. Kenneth Dodd, Jr., William E. Duellman, Harold A. Dundee, Harry W. Greene, Carla Ann Hass, S. Blair Hedges, Robert W. Henderson, Thomas A. Jenssen, Hinrich Kaiser, Julian C. Lee, Jonathan B. Losos, John D. Lynch, Robert Powell, Jonathan Roughgarden, Margaret M. Stewart, Richard Thomas, Roger S. Thorpe, Peter J. Tolson, and Daniel S. Townsend.

Published 1996. 457 pages, 8 color plates, clothbound.

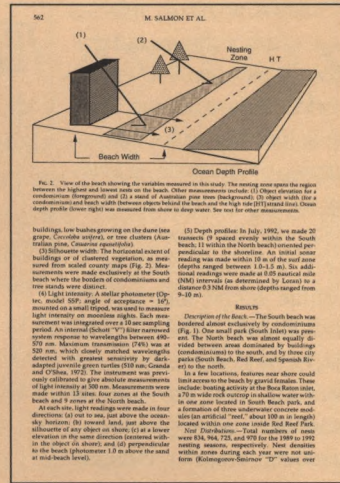
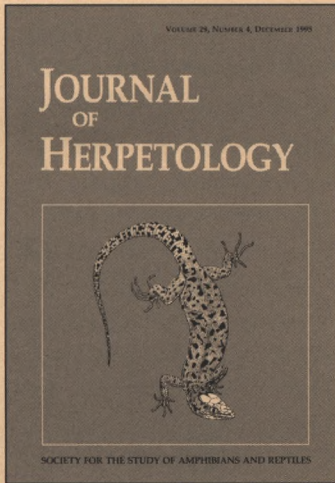
Contributions to West Indian Herpetology

A Tribute to Albert Schwartz



*Edited by Robert Powell
and Robert W. Henderson
Foreword by Thomas W. Schoener*

Published by the Society for the Study of Amphibians and Reptiles • 1996



HERPETOLOGICAL REVIEW is the Society's official news-journal and is international in scope. In addition to feature articles, newsnotes, and commercial ads, regular departments include meetings, regional societies, legislation and conservation, techniques, husbandry, conservation, natural history notes, geographic distribution, and book reviews. Volumes total 225 pages (issues are paperbound; format 8.5 × 11 inches [22 × 28 cm]) and are extensively illustrated; covers feature color photos of unusual species.

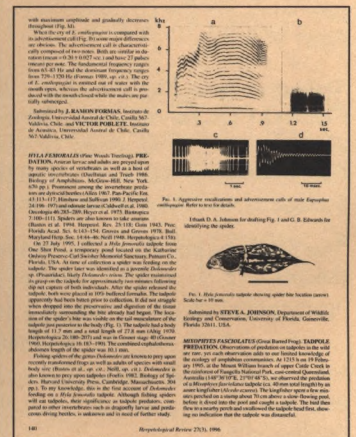
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- Captive Reproduction of the Mexican Acaltetepon, *Heloderma horridum*
- Nocturnal Nesting by Captive Varanid Lizards
- Incidence of Bites from Venomous Reptiles in North American Zoos
- A Simple Method of Mite Control
- The University of Kansas: A Long-time Center of Herpetological Research and Training
- A Harmless Technique for Sexing Hatchling Lizards
- Purification of High Quality DNA from Shed Skins
- A Re-evaluation of Suffocation as the Cause of Death During Constriction by Snakes
- A Safe Method for Handling Large Snakes in the Field
- Fruit and Nectar Feeding by *Lacerta lilfordi* on Cabrera Archipelago
- Body Color Polymorphism in *Trimeresurus flavoviridis* on Okinawa Island, Japan
- New Records of Reptiles from the State of Paraná, Brazil
- The Trade in Dendrobatid Frogs from 1987 to 1993
- Extirpation of the Parthenogenetic Lizard *Cnemidophorus tessellatus* in Colorado
- The Diet of Kraits (Elapidae: *Bungarus*)
- The "Skink Scooper": A Device for Catching Leaf Litter Skinks
- A Non-flushing Stomach Wash Technique for Large Lizards
- The Early Collections and Curators, Division of Reptiles and Amphibians, Museum of Zoology, University of Michigan
- Possible Sperm Storage in the Caiman, *Paleosuchus palpebrosus*
- New Legislation for the Protection and Management of *Dermatemys mawii* in Belize, Central America
- Intraspecific Oophagy in Reptiles
- Sexual Selection: What Has Been Learned from Ectotherms?
- Observations on a Captive-born Litter of Typhlonectid Caecilians
- Why do Snakes Sleep on the Vegetation in Central Amazonia?
- Mist Netting: Adapting a Technique from Ornithology for Sampling Semi-aquatic Snakes
- Factors in the Decline of *Varanus indicus* on Guam, Mariana Islands
- Earthworms: A Balanced Diet for Small Snakes?
- Herpetological Literature in the International Zoo Yearbook

JOURNAL OF HERPETOLOGY is the Society's official scientific journal and covers all aspects of the biology of amphibians and reptiles. Issues are paperbound (volumes total 600 pages; format 7 × 10 inches [18 × 26 cm]) and are extensively illustrated, often with color plates.

Sample titles from recent issues:

- Foraging Ecology of the Puerto Rican Boa (*Epicrates inornatus*): Bat Predation, Carrion Feeding, and Piracy
- Palatal Metamorphosis in Basal Caecilians as Evidence for Lissamphibian Monophyly
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- Reproduction, Oviposition-site Selection, and Tadpole Oophagy of an Arboreal Frog from Taiwan
- Courtship in the New Guinean Turtle, *Emydura subglobosa*
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- Molecular Taxonomy of European Plethodontid Salamanders (genus *Hydromantes*)
- Distribution and Habitat of *Rhyacotriton variegatus* in Managed, Young Growth Forests in Coastal California
- Effect of Moonlight on Activity Patterns of Prairie Rattlesnakes
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- Dynamics of Range Expansion by Three Introduced Species of *Anolis* Lizards on Bermuda
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- Do Flag Markers Attract Turtle Nest Predators?
- Incipient Intraspecific Isolating Mechanisms in the Japanese Brown Frog
- Acoustic Characteristics and Systematic Relationships of Arboreal Microhylid frogs from Malaysia
- A New *Mabuya* from Southern Madagascar
- The Spermatogenic Cycle of *Dermophis mexicanus*
- Visual and Acoustic Signaling in the Panamanian Golden Frog (*Atelopus*)
- DNA Fingerprinting of Turtles
- A Phylogenetic Analysis of New World Coral Snakes
- Natural History of the African Shieldnose Snake, *Aspidelaps scutatus*
- Thermal Consequences of Reptilian Viviparity
- A New *Rhacophorus* Frog from Taiwan
- A Comparison of Herpetofauna Sampling Effectiveness in Pitfall, Single-ended, and Double-ended Funnel Traps Used with Drift Fences
- Population Characteristics and Morphometrics of Angulate Tortoises in South Africa
- Do Scale Anomalies Cause Differential Survival in *Vipera berus*?



THE GILA MONSTER AND ITS ALLIES

by Charles M. Bogert and Rafael Martín del Campo

THIS MONOGRAPH, FIRST PUBLISHED IN 1956, IS STILL THE only comprehensive treatment of the genus *Heloderma*, which comprises the world's only venomous lizards. It covers all aspects of the animals' biology and venomology. For this reprint, Dr. Bogert prepared an extensive preface intended to update the original. The reprint also includes an essay by Daniel D. Beck, author of the most recent studies on the ecology and behavior of *Heloderma*, which evaluates Bogert and Martín del Campo's monograph in view of modern research.



STEJNEGER'S BOOK is a recognized herpetological classic. It is "still the only complete treatment of the herpetology of Japan, and even today is an indispensable reference book" (from the new introduction by Masafumi Matsui). The geographic coverage is far greater than modern Japan and includes Taiwan, Korea, Manchuria, and adjacent coastal China, as well as the easternmost part of Siberia. Stejneger treats 156 species, and for each provides a complete synonymy, detailed descriptions of typical specimens, a discussion of variation, habitat, and distribution, and a list of specimens with localities. Each species is illustrated (35 plates, 409 text figures); there are keys to genera and species, an annotated bibliography, a gazetteer of localities, and an index.

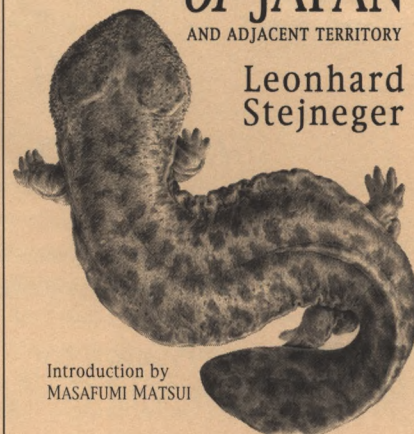
Prof. Matsui provides a commentary on Stejneger's field work in Japan and updates his species names to current nomenclature.

Co-published with the Herpetological Society of Japan

HERPETOLOGY of JAPAN

AND ADJACENT TERRITORY

Leonhard Stejneger



Introduction by
MASAFUMI MATSUI

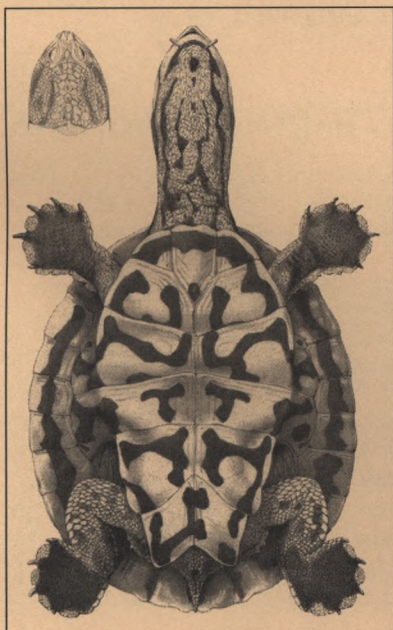
SOCIETY FOR THE STUDY OF AMPHIBIANS AND REPTILES
in cooperation with the Herpetological Society of Japan

THE HERPETOLOGICAL PUBLICATIONS OF WILHELM PETERS

WILHELM PETERS, GERMANY'S LEADING HERPETOLOGIST OF the 19th century, described 122 new genera and 649 new species from throughout the world. These represent 56 families and 65% of his species are valid today. Peters' herpetological books and

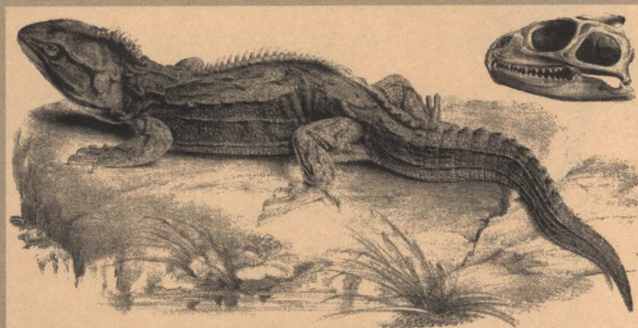
papers, with outstanding illustrations, are very scarce today. This reprint has facsimiles of all 173 titles, including Peters' 239-page book on the herpetology of Mozambique. This reprint comprises 1562 pages of original text and 114 plates, as well as a biography of Peters, an annotated bibliography of his works, a synopsis of species, and a cross-index to the volume by Aaron M. Bauer, Rainer Günther, and Meghan Klipfel.

Co-published with the Deutsche Gesellschaft für Herpetologie und Terrarienkunde



LIZARDS OF AUSTRALIA / John E. Gray AND NEW ZEALAND & Albert Günther

THIS BOOK REPRESENTS THE FIRST MONOGRAPHS DEALING exclusively with the herpetofauna of Australia and New Zealand. It consists of two parts: the reptile section from "Zoology of H.M.S. Erebus and Terror," by Gray and Günther, and Gray's book, "The Lizards of Australia and New Zealand." The new introduction, by Glenn M. Shea, puts these works into historical context. The most outstanding feature of this reprint is the 20 lithographic plates by G. H. Ford, one of the greatest natural history artists of the 19th century. These illustrate monitors, pygopodids, geckos, skinks, and agamids. There is also one of the tuatara, which was then classified as a lizard; this is the first drawing of the tuatara ever published.



Co-published with the Australasian Affiliation of Herpetological Societies

Gecko Fauna of the USSR and Contiguous Regions

by Nikolai N. Szczerbak and Michael L. Golubev

Translated from the Russian by
Michael L. Golubev and Sasha A. Malinsky

Editorial supervision by
Alan E. Leviton and George R. Zug

SZCZERBAK AND GOLUBEV'S BOOK, FIRST published in Russian in 1986, is the only comprehensive monograph on the Palearctic gecko fauna. **The book's scope is the entire gecko fauna of the former Soviet Union and related species in surrounding regions including Mongolia, western China, Afghanistan, and Pakistan through the entire Middle East to eastern Europe and northern Africa.** The genera covered are *Agamura*, *Alsophylax*, *Bunopus*, *Carinatogekko*, *Crossobamon*, *Eublepharis*, *Tenuidactylus* (equivalent to the Palearctic *Cyrtodactylus*), *Teratoscincus*, and *Tropiocolotes*. The deserts of Central and Southwest Asia have a large and diverse gecko fauna and this book covers 53 species (75 taxa including subspecies). The authors have had extensive experience with these geckos, both in the field and the laboratory, and much of their original data is given in this book. **The English translation has been corrected by Michael Golubev and updated by him with references to the recent literature (1986–1996).**

The book's contents include a review of previous work and a discussion of the relationships among genera. The taxonomic accounts cover all aspects of systematics and general biology: type locality, karyotype, synonymy, diagnosis, description of holotype, color and pattern, reproduction and growth rates, variation (ontogenetic, sexual, geographic), ecology and behavior (daily and seasonal activity patterns, natural predators, temperature relations, shedding, diet), and conservation. There are detailed lists of locality records and point locality distribution (or "spot") maps for each species. Keys are provided to genera, species, and subspecies. The book is extensively illustrated and includes **24 color photographs of geckos.**

☞ Professor Szczerbak, director of the Zoological Museum, Ukrainian Academy of Sciences in Kiev, is the author of several outstanding books on the herpetology—and especially on the desert lizards—of the former Soviet Union. Dr. Golubev, Szczerbak's former doctoral student, is a well-known specialist on geckos. He emigrated to the United States in 1993 and now lives in Seattle, Washington.

GECKO FAUNA OF THE USSR AND CONTIGUOUS REGIONS

Specifications: 245 pages, 8 color plates (24 photographs), 98 black-and-white figures (maps, graphs, and numerous photos of animals and their habitats), keys, bibliography, index. Format 7 × 10 inches (18.0 × 25.5 cm). Clothbound with dust jacket. Published December 1996. ISBN 0-916984-39-7.

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